

Mean (\bar{X}) and Standard Deviation Test for Outliers

Illinois Project:

A.I.P. Project:

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Mix Design(s) Number:

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1. Calculation of Mean (\bar{X}) and Standard Deviation (S)

[illegible]

No. Sublots (N) = _____

$$\bar{X} = (\text{Total Column 1}) / N = \underline{\hspace{2cm}}$$
$$S = \sqrt{((\text{Total Column 3})/(N - 1))} = \underline{\hspace{2cm}}$$

2. Test for Outlier

Choose the X from column 1 that is the furthest from $\bar{X} =$ _____

$$T = | (X - \bar{X}) | / S = \underline{\hspace{2cm}}$$

Note : Difference between the suspect test value and the Mean (\bar{X}).

Critical "T" Value for N = _____

Outlier:

Resident Engineer:

Consultant: _____